DR-64. VISIBLE-LIGHT ORGANIC PHOTOREDOX-CATALYZED C–H ALKOXYLATION OF IMIDAZOPYRIDINE WITH ALCOHOL

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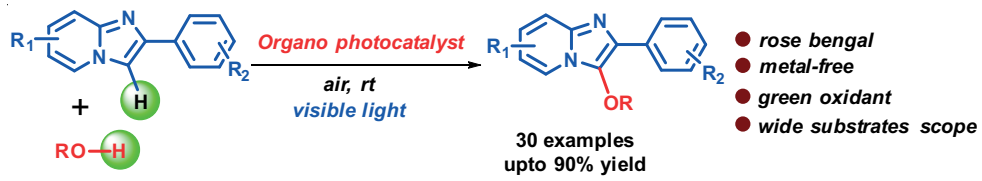
Visible-light photoredox process has emerged as a prominent tool in challenging chemical transformations in recent years [1]. Moreover, functionalization of imidazo[1,2-*a*]pyridines is synthetically attractive as this heterocyclic scaffold is widely used in biological and medicinal fields [2]. The nature of substituents present at C-3 positions of imidazo[1,2-*a*]pyridines regulates their pharmacological activities [3]. C-3 alkoxyl group containing imidazo[1,2-*a*]pyridines have been used as selective and potent inhibitors of mycobacterial adenosine triphosphate (ATP) synthesis and also measures luciferase activity in living cells [4]. Therefore, development of straightforward and environmentally benign methods for the synthesis of direct C–H alkoxylation are highly demanding in organic synthesis. However, to the best of our knowledge, there is no direct C–H alkoxylation on imidazo[1,2-*a*]pyridines moiety. Considering the importance of C-3 alkoxylated imidazo[1,2-*a*] pyridines, herein we report a direct and environmentally benign method for the alkoxylation of imidazopyridines using rose bengal as a photoredox catalyst under ambient air at room temperature [5].



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